

## WHAT IS CLAIMED IS:

1. An information processor having an electronic mail function, which comprises:

5 a mail size upper limit value storing means for storing at least one upper limit value of a sending destination mail size;

a mail size comparing means for comparing said upper limit value stored in said mail size upper limit value storing means with a size of a mail main part of sent mail;

10 a sent mail dividing means for dividing said sent mail into a plurality of sub-mail sections when the size of said sent mail exceeds said mail size upper limit value; and

15 a mail sending means for sequentially sending sets of information individually including said sub-mail sections.

20 2. An information processor having an electronic mail function according to claim 1, which further comprises a destination-based information registration database, data being registered in said destination-based information registration database, said data being destination-based information including whether or not a mail address, a mail upper limit value and a divided mail reconstituting program for reconstituting said plurality of sub-mail sections to  
25 the original mail exist in each destination.

3. An information processor having an electronic mail

function according to claim 2, which further comprises means for setting data to said destination-based information registration database, said data being information on judging whether or not there is necessity of  
5 attaching said reconstituting program.

4. An information processor having an electronic mail function according to claim 1, which further comprises a mail dividing information adding means for adding mail  
10 dividing information necessary for reconstituting said plurality of divided sub-mail sections to the original mail form to each of said sets of information.

5. An information processor having an electronic mail  
15 function according to claim 4, wherein said mail dividing information attached to each of the sub-mail sections includes an identification code for identifying the original mail, sub-numbers for expressing order of said sub-mail sections, a dividing number of the mail, and a  
20 capacity of each of said sub-mail sections.

6. An information processor having an electronic mail function according to claim 2, wherein said reconstituting program is a program for reconstituting said original mail  
25 based on all said received sub-mail sections and said mail dividing information attached to each of said sub-mail sections.

7. An information processor having an electronic mail function according to claim 2, which further comprises

means for automatically attaching said dividing mail  
5 reconstituting program to sent mail when it is judged that  
a destination does not have said divided mail  
reconstituting program.

8. An information processor having an electronic mail  
10 function according to claim 1, wherein said mail size upper  
limit value storing means comprises a mail size upper limit  
value storing part; and a mail size upper limit value input  
means for inputting a mail size upper limit value for each  
destination, said mail size upper limit value being stored  
15 in said mail size upper limit value storing part.

9. An information processor having an electronic mail  
function according to claim 8, wherein said mail size upper  
limit value storing means further comprises a mail size  
20 upper limit value switching means for switching a mail size  
upper limit value used by said mail size comparing means  
corresponding to a destination.

10. An information processor having an electronic mail  
25 function according to claim 1, which further comprises  
means for setting a subject name for each of the sub-mail  
sections, said subject name being a name of an original

mail added with data corresponding to number of divided sections and dividing order of said sub-mail sections.

11. An information processor having an electronic mail  
5 function according to claim 1, wherein it is displayed on a display unit of said information processor that sent mail is divisionally being sent.

12. An information processor having an electronic mail  
10 function according to claim 1, wherein said dividing number is set so as to be minimized.

13. An information processor having an electronic mail  
15 function according to claim 1, wherein said dividing number is set so as to equalize capacities of the sub-mail sections.

14. An information processor having an electronic mail function, which comprises:

20 a mail dividing judging means for judging whether or not mail dividing information is added in received mail data;

a divided-mail receiving judging means for judging referring to the mail dividing information whether or not  
25 all of sending sub-mail sections can be received; and

a mail reconstituting means for reconstituting the sections of sending sub-mail data to a form of a single

original item of sending mail data.

15. An information processor having an electronic mail function according to claim 14, wherein it is displayed on  
5 a display unit of said information processor that received mail is divisionally being sent.

16. A method of sending and receiving electronic mail, the method comprising the steps of:

10 accepting a request of sending mail;  
acquiring a mail size upper limit value of a destination based on an address of said destination;

comparing a size of the mail to be sent with said mail size upper limit value of the destination;

15 dividing the mail to be sent into sub-mail sections according to an appropriate dividing method and sending the sub-mail sections by attaching dividing information to each of the sub-mail sections, when the size of the mail to be sent is larger than said mail size upper limit value of the  
20 destination;

attaching a reconstituting program of divided mail to the sent mail when the reconstituting program is not provided to the destination; and

25 directly sending the mail to be sent when the size of the mail to be sent is smaller than said mail size upper limit value of the destination.

17. A method of sending and receiving electronic mail according to claim 16, wherein when the mail to be sent is divisionally sent, it is displayed on a display unit that the mail is divisionally sent.

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18. A method of sending and receiving electronic mail, the method comprising the steps of:

judging whether or not received mail is divisionally being sent;

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after receiving all sub-mail sections, reconstituting the received sub-mail sections to a mail before divided using a reconstituting program and dividing information attached to each of the mail sections when the received mail is divisionally sent; and

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executing normal receiving processing when the received mail is not divisionally sent.

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19. A method of sending and receiving electronic mail according to claim 18, wherein when the received mail is divisionally sent, it is displayed on a display unit that the mail is divisionally sent.

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20. A recording medium storing an electronic mail processing program for realizing an electronic mail function by loading the electronic mail processing program into an information processor, wherein said electronic mail processing program includes a program executing:

processing for comparing an upper limit value of sent mail size with a size of mail to be sent; and

processing for sending the mail by automatically dividing mail data to be sent into a plurality of sub-mail sections when the size of the mail to be sent exceeds the upper limit value of sent mail size.

21. A recording medium storing an electronic mail processing program according to claim 20, which further includes a program for executing mail dividing information adding processing for adding information into sent mail data, said information being necessary for reconstituting divided items of divisional sub-mail data to a single original item of mail data.

22. A recording medium storing an electronic mail processing program according to claim 21, which further includes a program executing:

processing for attaching a reconstituting program for reconstituting divided items of divisional sub-mail data to a single original item of mail data; and

processing for setting to a destination database whether or not attaching of said reconstituting program is necessary.

23. A recording medium storing an electronic mail processing program according to claim 20, which further

includes a program executing:

mail size upper limit value setting processing for setting an upper limit value of sent mail size; and

mail size upper limit value storing processing for  
5 storing the upper limit value of sent mail size set in the mail size upper limit value setting processing in a destination database an information processor.

24. A recording medium storing an electronic mail  
10 processing program according to claim 23, which further includes a program executing processing for switching the upper limit value of mail size referring to said destination database corresponding to a destination.

15 25. A recording medium storing an electronic mail processing program according to claim 20, which further includes a program executing processing for automatically changing a subject name of each of items of sub-mail data to each subject name corresponding to number of divided  
20 sections and dividing order of each of the items of sub-mail data.

26. A recording medium storing an electronic mail processing program for realizing an electronic mail  
25 function by loading the electronic mail processing program into an information processor, wherein said electronic mail processing program includes a program executing:



mail dividing information judging processing for  
judging whether or not mail dividing information is  
attached to received mail data;

divided mail receiving judging processing for judging  
5 based on the mail dividing information whether or not all  
necessary items of divisional sent sub-mail data have been  
received; and

mail reconstituting processing for reconstituting the  
received plurality of items of divisional sent sub-mail data  
10 to a single original item of sending mail data.

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